

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 08-227405

(43) Date of publication of application : 03.09.1998

(51)Int.Cl.	G08F 15/16
	G08F 17/12
	G08F 17/16

(21)Application number : 07-032088

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(22) Date of filing : 21.02.1985

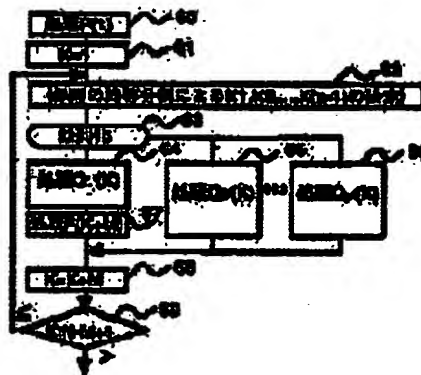
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(54) PARALLEL EXECUTING METHOD FOR REPETITIVE PROCESSING

(57)Abstract:

PURPOSE: To execute a repetitive processing such as an LU decomposing processing by parallel computers in a shorten time.

CONSTITUTION: For example, a $(K+1)$ th repetitive processing consists of a processing $P(K)$ which can not be performed in parallel and a processing $Q(K)$ which can be performed in parallel, the processing $Q(K)$ uses the result of the processing $P(K)$, and a $(K+1)$ th processing $P(K+1)$ uses the result of a processing $Q(K)$ as part of the $(K+1)$ th processing $Q(K)$. In this case, the processing $Q(K)$ is decomposed into processings $Q_1(K) \sim Q_P(K)$ as many as the number P of processors, and the processing $Q(K)$ is included in the processing $Q_1(K)$. The processing $Q_1(K)$ and processing $P(K+1)$ are executed in order by the same processor and other processing $Q_2(K) \sim Q_n(K)$ are executed by other $(P-1)$ processors in parallel. The said processings are repeated thereafter each time of processes of all the processors end.



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[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

NOTICE OF REJECTION GROUNDS

(Page 1 is not translated at all. Lines 1-15 on page 2 is translated in the following.)

[Ground 2]

[List for specifying reference documents and the like]

1. Published Japanese Patent No. H08-227405 gazette

[Claims] 1-7

[Reference documents] 1

[Remarks]

Document 1 is concerned with a shared-memory type parallel computer equipped with more than one processor modules, and describes about a method for parallel processing of a matrix in which a matrix is divided into a number of submatrices and these submatrices are processed in parallel by the plural processor modules.

It is deemed to be easy for a person in the art to decide what kind of a matrix operation to be performed and have the shared memory type parallel computer described in Document 1 perform thus decided matrix operation. In particular, it is deemed to have been easy for a person in the art to have the shared memory type parallel computer described in Document 1 perform LU decompositions, Cholesky decompositions and modified Cholesky decompositions.

Accordingly, the inventions recited in claims 1-7 are judged to have been easy for a person in the art to conceive based on the invention described in Document 1.

(Above includes all the lines of the paragraph under [Ground 2]. All the remaining lines in page 2 are not translated)

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